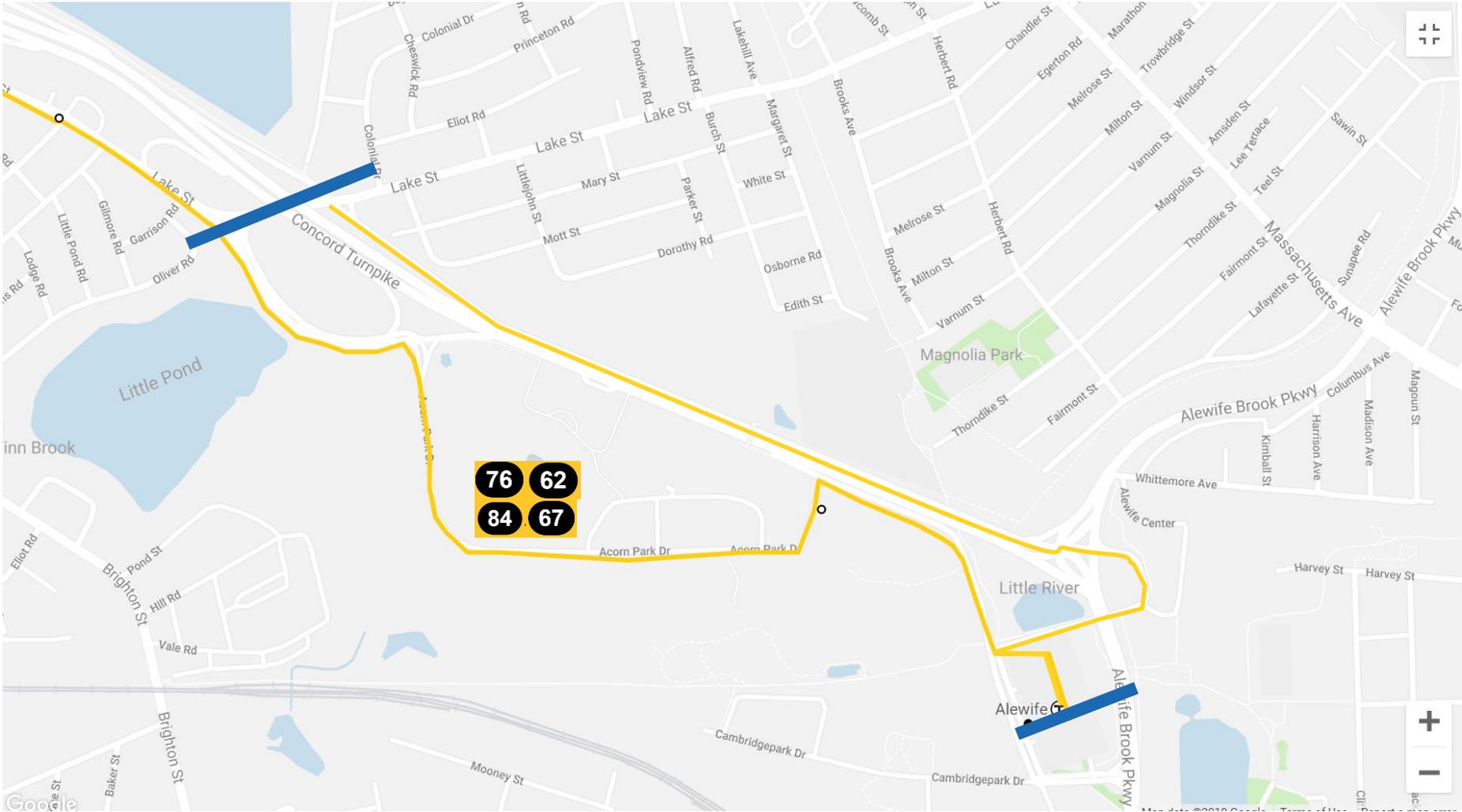


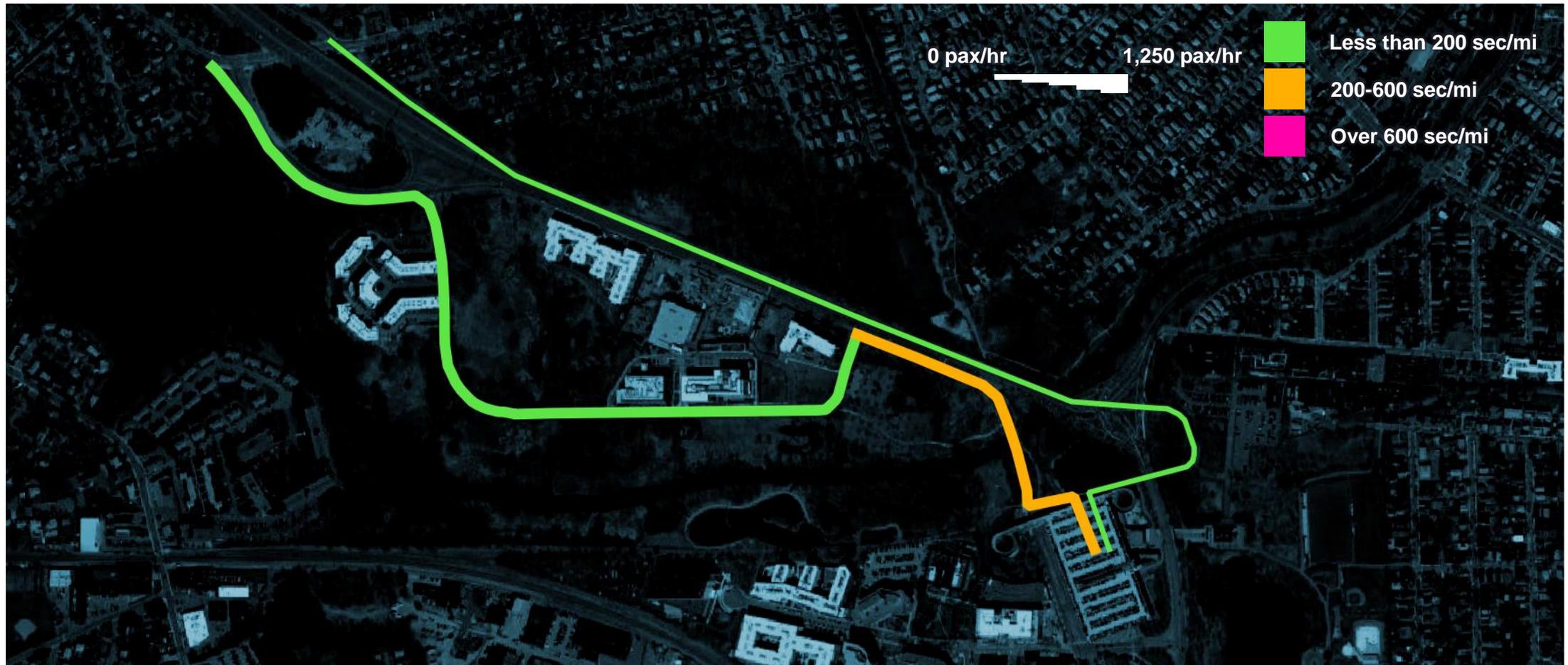
ROUTE 2 ALEWIFE ACCESS ROAD BUS-ONLY LANE CONCEPT

January 2020

Route 2 Corridor: Alewife Access Road



Ridership and 90th Pct. Delay: 7am – 9am



Ridership and 90th Pct. Delay: 4pm – 7pm



Peak Hour Person Throughput (7-9 AM and 4-7 PM)

Corridor	Segment	Car	Bus	Truck
Route 2 to Alewife	Route 2 Lake Street Overpass to Lake Street Onramp	92%	6%	2%
Route 2 to Alewife	Route 2 Lake Street Onramp to MA-16	90%	8%	2%
Route 2 to Alewife	Steel Place (continued from access road) to Alewife Busway	65%	35%	0%
Route 2 to Arlington	Alewife Busway to MA-16 via dog leg	65%	35%	0%
Route 2 to Arlington	Route 2 MA-16 to Lake Street Offramp	90%	8%	2%
Route 2 to Arlington	Route 2 Lake Street Offramp to Lake Street Onramp	93%	6%	2%

- HPMS data based on average private vehicle occupancy and automatic passenger count data from the MBTA
- Data represents percent people (not vehicles)

Issues and Opportunity

- Buses slow **after** right turn from Acorn Park Drive onto the inbound Alewife Access Rd
- Vehicles **queue waiting to turn left** at the end of the off ramp due to pedestrian crossing
- Inbound Access Road is **wide enough** to split into two lanes

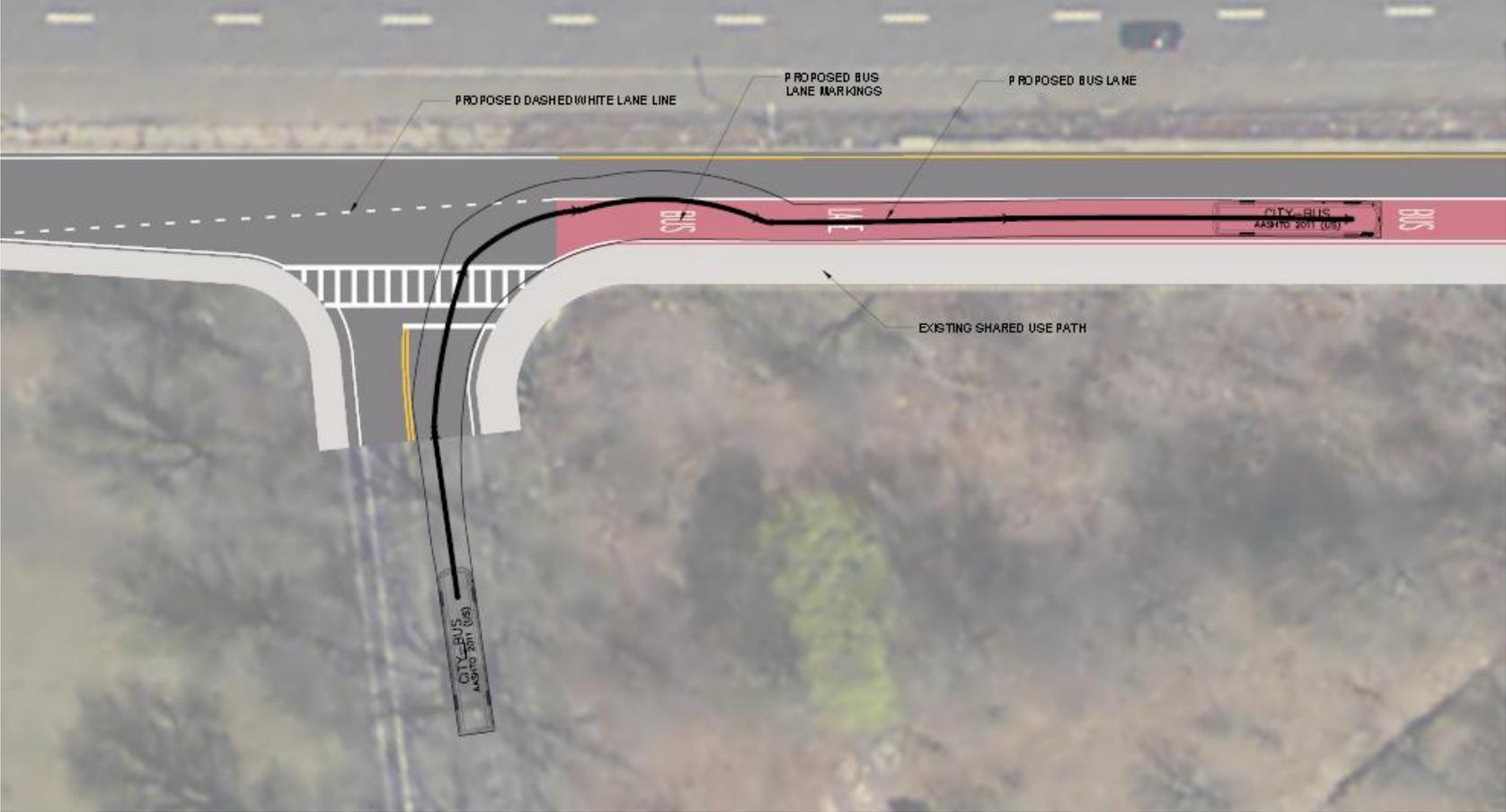
Benefits of Transit Priority

- At 50th percentile travel times, people riding the bus will save a **cumulative 12.2 hours** each day
- At 90th percentile travel times, people riding the bus will save a **cumulative 22.0 hour** each day

Proposed Concept: Create a Right Lane Bus Lane



Right Lane Bus Lane Auto-turn at Acorn Park Drive

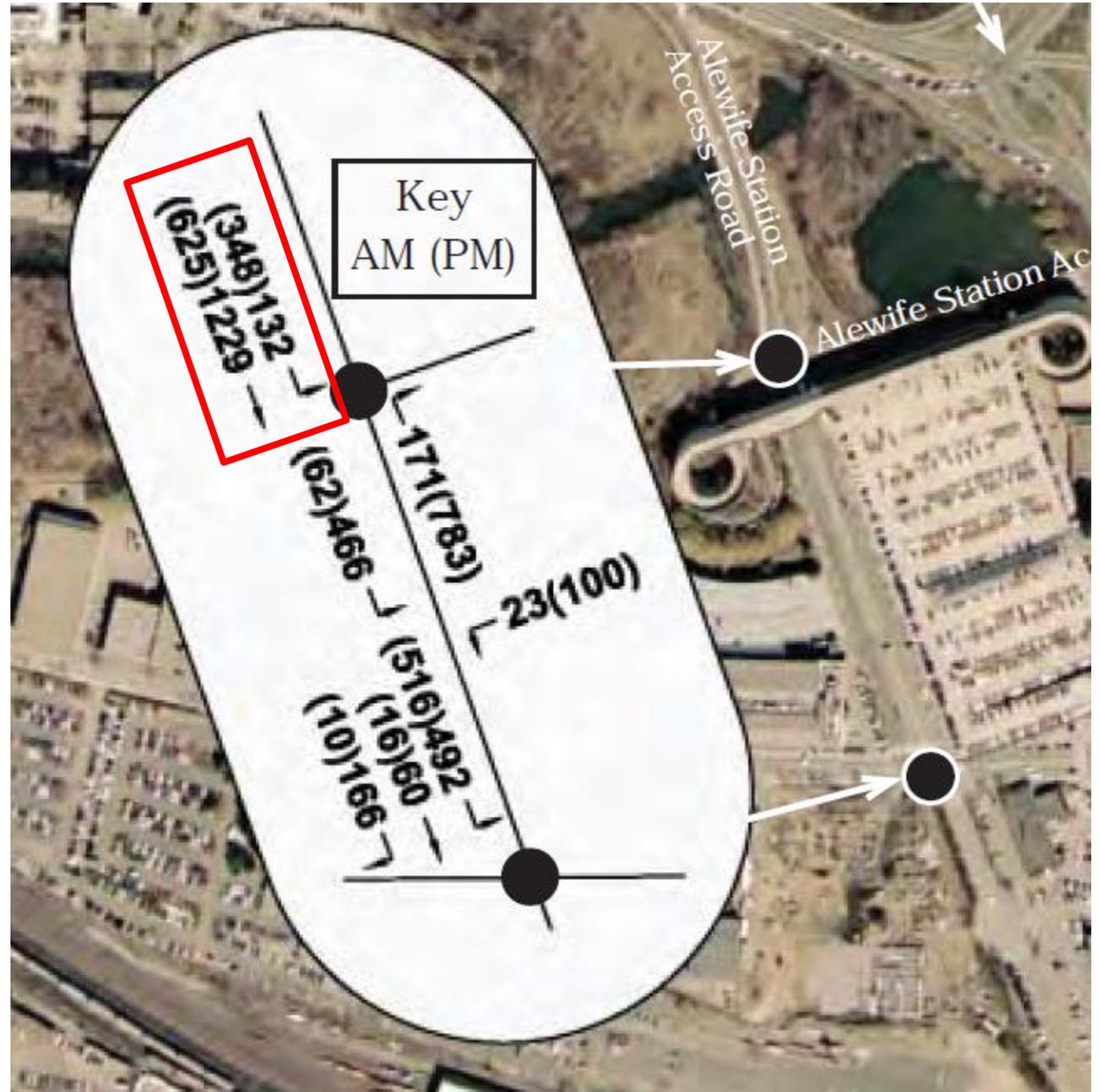


Right Lane Bus Lane Auto-turn around Curve



Turning Volume

- From the CTPS 2009 memo
- Most drivers coming off the Alewife ramp go straight—doubled in the PM



Project Timing

MassDOT needs to complete bridge repairs prior to implementation of a bus lane.

- Developing a detailed scope of work and cost estimate for this work
- Includes attached utilities and work to be completed above water
- Design work is tentatively planned to be completed in late Spring
- State funding for completing bridge work not yet identified
- Bridge remains safe for ongoing operation



Next Steps

- Continue working with MassDOT to identify construction funding
- Identify design solution for end of bus lane ramp working with the City of Cambridge, DCR, MassDOT, and MBTA
- Consider interim bus lane options if construction funding is delayed

Questions?